

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

1. (Currently amended) A surface light source device comprising:
a light source body including:
a first substrate through which light is output;
a second substrate disposed to face the first substrate ~~defining~~ a space ~~formed~~
~~therebetween the first and second substrates~~, the space ~~defined between the first and~~
~~second substrates~~ being filled with a discharge gas to generate the light; and
a voltage applying part to provide an electric signal to excite the discharge gas in
the space; and
a light diffusion part to diffuse the light generated from the light source body to output
diffused light.
2. (Original) The surface light source device of claim 1, wherein the light diffusion part
is integrally formed with the light source body.
3. (Previously Presented) The surface light source device of claim 2, wherein the light
source body further includes:

at least one partition disposed between the first and second substrates, the space being
regionally divided by the at least one partition; and
a sealing member disposed between the first and second substrates to seal the space.
4. (Original) The surface light source device of claim 3, wherein a sealing layer is
formed between the at least one partition and the first substrate so that the space is sealed at a
contact area between the at least one partition and the first substrate.

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

5. (Original) The surface light source device of claim 3, wherein a first sealing layer is formed between the sealing member and the first substrate, and a second sealing layer is formed between the sealing member and the second substrate.

6. (Original) The surface light source device of claim 3, wherein the space is defined by surfaces of the first and second substrates, the at least one partition and the sealing member, the surfaces are coated with a fluorescent layer.

7. (Original) The surface light source device of claim 6, wherein the surfaces of the first and second substrates have areas in contact with the at least one partition and remaining areas not in contact with the at least one partition, the fluorescent layer being formed on the remaining areas of the surfaces of the first and second substrates.

8. (Original) The surface light source device of claim 7, wherein the fluorescent layer is formed on the surfaces of the at least one partition which include a surface in contact with the sealing layer.

9. (Original) The surface light source device of claim 8, further including a light reflecting layer formed between the fluorescent layer and the surfaces of the second substrate and the least one partition.

10. (Original) The surface light source device of claim 9, wherein the light reflecting layer is made of material including aluminum oxide (Al_2O_3) or titanium oxide (TiO_2).

11. (Original) The surface light source device of claim 3, wherein the at least one partition includes two or more partitions having a substantially identical length smaller than a distance between opposite ends of the space in a longitudinal direction of the partitions.

12. (Original) The surface light source device of claim 11, wherein the partitions each have first and second end portions opposite to each other in the longitudinal direction, the

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

partitions being in contact with the sealing member such that the first end portions of odd-numbered ones of the partitions are in contact with the sealing member and the second end portions of even-numbered ones of the partitions are in contact with the sealing member to partition the space in a serpentine form.

13. (Original) The surface light source device of claim 11, wherein the partitions are arranged in a direction substantially perpendicular to the longitudinal direction of the partitions and substantially parallel with each other.

14. (Original) The surface light source device of claim 2, wherein the light diffusion part includes a light diffusion pattern formed on a surface of the first substrate to diffuse the light generated from the light source body.

15. (Original) The surface light source device of claim 14, wherein, the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of convex surfaces successively formed on the second surface.

16. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of convex members formed on the second surface such that density of the convex members is higher at a first area through which the light passes than at a second area adjacent to the at least one partition.

17. (Original) The surface light source device of claim 16, wherein the convex members at the first and second areas have a substantially identical size.

18. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of convex members

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

formed on the second surface such that the convex members have a larger size at an area adjacent to the at least one partition than at an area through which the light passes.

19. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of convex surfaces successively formed on the first surface.

20. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of convex surfaces successively formed on both the first and second surfaces.

21. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of V-shaped grooves successively formed on the second surface.

22. (Original) The surface light source device of claim 21, wherein the V-shaped grooves each have a rough surface such that a plurality of convex surfaces successively formed on the surface of the respective V-shaped grooves.

23. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space and the at least one partition, the light diffusion pattern including a plurality of protrusion members discretely formed on the second surface, the protrusion members each having a cross-sectional view of a polygonal shape.

24. (Original) The surface light source device of claim 14, wherein the first substrate has first and second surfaces opposite to each other and the first surface is in contact with the space

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

and the at least one partition, the light diffusion pattern including a plurality of grooves discretely formed on the second surface, the grooves each having a cross-sectional view of a polygonal shape.

25. (Original) The surface light source device of claim 2, wherein the light diffusion part includes a plurality of light diffusion members disposed on a surface of the first substrate through which the diffused light is output.

26. (Original) The surface light source device of claim 25, wherein the light diffusion members have a substantially identical size and are attached on the surface of the first substrate by adhesive.

27. (Original) The surface light source device of claim 25, wherein the light diffusion members have various sizes and are attached on the surface of the first substrate by adhesive.

28. (Original) The surface light source device of claim 25, wherein the light diffusion members have a substantially identical size and are securely held by a binder which is coated on the surface of the first substrate.

29. (Currently amended) A display device displaying images in response to electrical signals externally provided, comprising:
a display panel to display the images;
a surface light source device to provide surface light to the display panel, the surface light source device including:

a light source body including:

a first substrate through which light is output;

a second substrate disposed to face the first substrate defining a space ~~formed therebetween the first and second substrates~~, the space defined between the first and second substrates being filled with a discharge gas to generate the light; and

Appl. No. 10/805,923
Response dated: June 19, 2006
Reply to Final Office action of April 19, 2006

a voltage applying part to provide an electric signal to excite the discharge gas in the space; and
a light diffusion part to diffuse the light generated from the light source body to output diffused light, wherein the light diffusion part is integrally formed with the light source body; and
a receiving container to receive and securely hold the display panel and the surface light source device.

30. (Previously Presented) The display device of claim 29, wherein the light source body further includes:

at least one partition disposed between the first and second substrates, the space being regionally divided by the at least one partition; and
a sealing member disposed between the first and second substrates to seal the space.

31. (Original) The display device of claim 30, further including:
a first a sealing layer formed between the at least one partition and the first substrate so that the space is sealed at a contact area between the at least one partition and the first substrate;
a second sealing layer formed between the sealing member and the first substrate; and
a third sealing layer formed between the sealing member and the second substrate.

32. (Original) The display device of claim 30, further including a fluorescent layer formed on surfaces of the first and second substrates, the at least one partition and the sealing member which define the space of the light source body.

33. (Original) The display device of claim 32, further including a light reflecting layer formed between the fluorescent layer and the surfaces of the second substrate and the least one partition.

Appl. No. 10/805,923

Response dated: June 19, 2006

Reply to Final Office action of April 19, 2006

34. (Original) The display device of claim 30, wherein the light diffusion part includes a light diffusion pattern formed on at least one surface of the first substrate to diffuse the light generated from the light source body.